

WEAPONS LOAD/RELEASE, GUN SERVICES, AIR-TO-GROUND

(F-16)

1. Objective. As prescribed in AFI 38-201, *Determining Manpower Requirements*, this Air National Guard Manpower Standard (ANGMS) quantifies the manpower required to accomplish the tasks described in the work center description.

2. Authority. Air National Guard Regulation 66-14, Maintenance Management, 13 July 1988, contains policy and procedural guidance for the Weapons Load Release, Gun Services, Air-To-Ground work center. This ANGMS has been developed in accordance with functional review procedures contained in AFPAM 38-208V1, *Air Force Management Engineering Program (MEP) Processes*, (formerly AFR 25-5).

3. Applicability. Applies to ANG F-16 Fighter Wings, Groups, and the 114th Fighter Squadron. Excludes the 162nd Fighter Group and the 184th Fighter Group. This standard only applies to peacetime operations.

4. Standard Data:

- a. Classification. Type II.
- b. Approval Date. 1 August 1992.
- c. Man-hour Data Source. Operational Audit method (historical record and technical estimate techniques).
- d. Standard Man-Hour Equation. $Y = 1318 + 4.931X$.
- e. Workload Factor:
 - (1) Title. A Programmed Flying Hour.
 - (2) Definition. The average monthly programmed flying hours.
 - (3) Source. USAF Program Document, Volume II, maintained by NGB/FM.

5. Application Instructions:

- a. The valid man-hour range for this ANGMS is 2260.41 through 4301.11.
- b. This ANGMS is appropriate for use with all peacetime civilian man-hour availability factors.
- c. Refer to the appropriate column in the standard manpower table at attachment 2 to determine the required specialty.

6. Statement of Conditions:

- a. There were no general conditions (environmental, equipment, or facility) which had an impact on the development or application of this manpower standard.
- b. There were no approved enhancements that impacted the man-hour equation for this work center.

**DONALD W. SHEPPERD
Major General, USAF
Director, Air National Guard**

OFFICIAL

**DEBORAH GILMORE
Chief
Administrative Services**

**2 Attachments
1. Work Center Description
2. Standard Manpower Table**

WORK CENTER DESCRIPTION**Weapons Load/Release, Gun Services, Air-to-Ground****(F-16)****DIRECT:****1. ON-EQUIPMENT MAINTENANCE:**

1.1. REMOVES WEAPONS DELIVERY SYSTEM EQUIPMENT. Prepares work equipment and removes appropriate weapons delivery item from aircraft for configuration change, scheduled shop maintenance, inspection, or to facilitate other maintenance. Posts status board and completes documentation.

1.2. INSTALLS WEAPONS DELIVERY SYSTEM EQUIPMENT. Prepares work equipment and installs appropriate weapons delivery item for configuration change, scheduled shop maintenance, inspection, or to facilitate other maintenance. Posts status board and completes documentation.

1.3. PERFORMS ON-EQUIPMENT INSPECTION. Checks status board, aggregates test equipment, performs electrical or mechanical inspection, and performs functional or jettison check. Completes documentation.

1.4. PERFORMS ON-EQUIPMENT REPAIR. Performs electrical checkout and troubleshooting. Performs functional check, removes or replaces part, removes auxiliary equipment, and performs on-equipment repair. Performs functional check and installs impulse cartridge. Completes documentation.

1.5. MAINTAINS AIRCRAFT ARMAMENT SYSTEM. Troubleshoots and repairs on-equipment.

1.5.1. MAINTAINS GUN SYSTEM.

1.5.2. MAINTAINS EXTERNAL STORES.

1.5.3. MAINTAINS WEAPON RACK SYSTEM.

1.5.4. MAINTAINS STORES RELEASE MATRIX.

1.6. PERFORMS OPERATIONAL CHECK OF AIRCRAFT ARMAMENT SYSTEM. Performs check to ensure proper installation and operational reliability of equipment.

1.6.1. PERFORMS CHECK OF BOMBING SYSTEM.

1.6.2. PERFORMS CHECK OF MISSILE LAUNCHING SYSTEM.

1.6.3. PERFORMS CHECK OF GUN SYSTEM.

1.6.4. PERFORMS CHECK OF JETTISON SYSTEM.

1.6.5. PERFORMS CHECK OF SENSITIZED MISSILE SYSTEM.

1.6.6. PERFORMS CHECK OF INTEGRATED AIR-TO-AIR SYSTEM.

1.6.7. PERFORMS CHECK OF INTEGRATED AIR-TO-GROUND SYSTEM.

1.7. REMOVES AND INSTALLS MISSION EQUIPMENT. Removes and installs equipment to facilitate inspection, Time Compliance Technical Order (TCTO), other maintenance, and unscheduled maintenance.

1.7.1. REMOVES ALTERNATE MISSION EQUIPMENT (AME).

1.7.2. REMOVES NORMALLY INSTALLED EQUIPMENT (NIE).

1.7.3. REMOVES GUN SYSTEM.

1.7.4. INSTALLS AME.

1.7.5. INSTALLS NIE.

1.7.6. INSTALLS GUN SYSTEM.

1.8. PERFORMS ARMAMENT SYSTEM INSPECTION. Performs phase, hourly, special, and boresight inspection.

1.8.1. PERFORMS PHASE INSPECTION.

1.8.2. PERFORMS HOURLY INSPECTION.

1.8.3. PERFORMS SPECIAL INSPECTION.

1.8.4. PERFORMS INSPECTION AND MAINTENANCE OF GUN BORESIGHT.

2. OFF-EQUIPMENT MAINTENANCE:

2.1. MAINTAINS AIRCRAFT ARMAMENT SYSTEM, AME, AND NIE. Bench checks, troubleshoots, and repairs off-equipment.

2.1.1. MAINTAINS GUN SYSTEM.

2.1.2. MAINTAINS EXTERNAL STORES EQUIPMENT.

2.1.3. MAINTAINS RELEASE SYSTEM COMPONENT.

2.2. PERFORMS AIRCRAFT ARMAMENT INSPECTION. Removes, disassembles, cleans, inspects, reassembles, replaces equipment part, tests, and completes documentation.

2.2.1. PERFORMS PHASE INSPECTION.

2.2.1.1. PERFORMS TRIPLE EJECTION RACK (TER) 90-DAY INSPECTION.

2.2.1.2. PERFORMS TER ANNUAL INSPECTION.

2.2.1.3. PERFORMS AIM-9 MISSILE LAUNCHER 60-DAY INSPECTION.

2.2.1.4. PERFORMS AIM-9 MISSILE LAUNCHER ANNUAL INSPECTION.

2.2.1.5. PERFORMS WING WEAPONS PYLON 18-MONTH INSPECTION.

2.2.1.6. PERFORMS CENTER LINE PYLON 18-MONTH INSPECTION.

2.2.1.7. PERFORMS MAU-12 30-DAY FIRED INSPECTION.

2.2.1.8. PERFORMS MAU-12 90-DAY NOT-FIRED INSPECTION.

2.2.1.9. PERFORMS MAU-12 18-MONTH INSPECTION.

2.2.1.10. PERFORMS LAU-117/88 ANNUAL INSPECTION.

2.2.1.11. PERFORMS LAUNCHER AFTER FIRE INSPECTION.

2.2.1.12. PERFORMS UNDERWING ADAPTER ANNUAL INSPECTION.

2.2.1.13. PERFORMS ANNUAL GUN INSPECTION.

2.2.1.14. PERFORMS 3000-ROUND GUN INSPECTION.

2.2.1.15. PERFORMS 15000-ROUND GUN INSPECTION.

2.2.1.16. PERFORMS 30000-ROUND GUN INSPECTION.

2.2.1.17. PERFORMS 45000-ROUND GUN INSPECTION.

2.2.1.18. PERFORMS UNIVERSAL AMMUNITION LOADING SYSTEM (UALS) 90-DAY INSPECTION.

2.2.1.19. PERFORMS UALS 180-DAY INSPECTION.

2.2.1.20. PERFORMS UALS ANNUAL INSPECTION.

2.2.1.21. PERFORMS F-2 TRAILER 30-DAY INSPECTION.

2.2.1.22. PERFORMS F-2 TRAILER 90-DAY INSPECTION.

2.2.1.23. PERFORMS F-2 TRAILER 24-MONTH INSPECTION.

2.2.1.24. PERFORMS F-2 TRAILER 24-MONTH INSPECTION.

2.2.2. PERFORMS SPECIAL INSPECTION.

2.3. MAINTAINS AMMUNITION LOADING SYSTEM. Troubleshoots and repairs ammunition loading system and UALS.

3. MUNITIONS LOADING:

3.1. LOADS AND DOWNLOADS MUNITIONS. Receives notification; performs functional, jettison, and stray voltage check as applicable; and performs munitions preparation and loads munitions. Performs post-load inspection and completes documentation.

3.1.1. LOADS AND DOWNLOADS MARK 82/84.

3.1.2. LOADS AND DOWNLOADS BDU-33/BDU-50 PRACTICE BOMB.

3.1.3. LOADS AND DOWNLOADS SUU-64/65/30 BOMB.

3.1.4. LOADS AND DOWNLOADS 20 MM AMMUNITION.

3.1.5. LOADS AND DOWNLOADS AIM 9/AMA/ACMI MISSILE/POD.

3.1.6. REMOVES AND REPLACES ARGON FLASK IN AIM 9 MISSILE.

3.1.7. DOWNLOADS AGM/TGM-65 MISSILE FROM LAUNCHER.

3.1.8. LOADS AND DOWNLOADS CHAFF AND FLARE.

3.1.9. REMOVES AND INSTALLS IMPULSE CARTRIDGE TO FACILITATE OTHER MAINTENANCE.

3.2. PREPARES AIRCRAFT ON RAMP. Pulls gun hold back, stores it, and reverses gun safety pin.

3.3. PERFORMS END-OF-DAY FIRING DAY MAINTENANCE. Removes M-16 exterior gun panel and port, cleans and lubricates gun, performs visual inspection, reinstalls exterior panel and gun port, and cleans exterior panel and port.

3.3.1. PERFORMS TRIPLE EJECTION RACK (TER-9A) MAINTENANCE. Removes expended cartridge, removes dirty ejector gun, visually inspects rack, adjusts firing lead anvil to proper torque, and installs clean ejector gun.

3.3.2. PERFORMS M-61 GUN MAINTENANCE. Removes exterior gun panel and port, cleans and lubricates gun, performs visual inspection, reinstalls exterior panel and gun port, and cleans exterior panel and port.

3.4. ARMS AND DE-ARMS MUNITIONS SYSTEM (END OF RUNWAY). Receives notification and travels to the end of runway. Hooks up external communication cord to aircraft, installs and removes safety device and safety pin, disconnects external communication cord, pulls chock and proceeds to next aircraft. Completes documentation.

3.5. ATTENDS DEBRIEFING. Attends debriefing when munitions malfunction occurs.

4. LOAD CREW CERTIFICATION. Conducts initial and recurring training to include academic and associate training and integrated combat turn evaluation. Performs additional load crew systems task to include training munitions maintenance, load crew training documentation, development and maintenance of task assignment list and initial task assignment list, development and maintenance of academic and practical training, incentive programs maintenance, quarterly summary report, and coordination of scheduled training.

5. STATUS COORDINATION. Monitors and coordinates with maintenance control all weapons, munitions maintenance, and munitions loading being accomplished on the flight line. Informs maintenance control of start and stop time, status change, delay, and extension.

6. TEST EQUIPMENT MAINTENANCE. Calibrates and maintains test equipment.

7. HAZARDOUS WASTE PROGRAM MANAGEMENT. Identifies, labels, contains, and disposes of hazardous waste. Maintains hazardous waste accumulation point, satellite collection area, and container. Inspects and maintains protective equipment.

8. TCTO MAINTENANCE. Performs maintenance required in accordance with applicable TCTO and completes documentation.

9. TECHNICAL DATA SUBACCOUNT MAINTENANCE. Receives and posts data and change to technical order file. Maintains file for serviceability.

10. COMPOSITE TOOL KIT (CTK) MAINTENANCE. Performs start and end of day inspection. Maintains CTK by inspecting for serviceability, performing corrosion control, and replacing tool.

11. SHOP SUPPORT EQUIPMENT MAINTENANCE. Performs servicing, periodic inspection, scheduled, and unscheduled maintenance.

12. UNIT TRAINING ASSEMBLY (UTA) PREPARATION. Performs planning and scheduling task associated with preparation for UTA.

INDIRECT: Indirect work involves those tasks that are not readily identifiable with the work center's product or service. The major categories of standard indirect work are Supervision, Administration, Meetings, Training, Supply, Equipment Maintenance, and Cleanup. See AFMS 00AA for the standard indirect description.

STANDARD MANPOWER TABLE											
WORK CENTER/FAC			APPLICABILITY MAN-HOUR RANGE								
Weapons Load/Release, Gun Services, Air-to-Ground/2516GD			2260.41 - 4301.11								
AIR FORCE SPECIALTY TITLE	AFSC	GRADE	MANPOWER REQUIREMENT								
Acft Armament Sys	462X0	Civ	15	16	17	18	19	20	21	22	23
TOTAL			15	16	17	18	19	20	21	22	23
AIR FORCE SPECIALTY TITLE	AFSC	GRADE	MANPOWER REQUIREMENT								
Acft Armament Sys	462X0	Civ	24	25	26	27	28	29			
TOTAL			24	25	26	27	28	29			

AF FORM 1113, Jun 91 (COMPUTER GENERATED). PREVIOUS EDITION IS OBSOLETE.